

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,414,823 B2  
APPLICATION NO. : 10/709889  
DATED : August 19, 2008  
INVENTOR(S) : Manabu Hashikura et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4, lines 41 and 42, “within 500  $\square$ m and that the microroughness be 3  $\square$ m (Ra)” should read --within 500  $\mu$ m and that the microroughness be 3  $\mu$ m (Ra)--.

Column 7, line 41, “0.7  $\square$ m (Ra)” should read --0.7  $\mu$ m (Ra)--.

Column 7, lines 43 and 44, and lines 62 and 63, as well as column 10, lines 10 and 11, “thermal expansion coefficient ( $\square$ ), and thermal conductivity ( $\square$ ),” each occurrence, should read --thermal expansion coefficient ( $a$ ), and thermal conductivity ( $k$ )--.

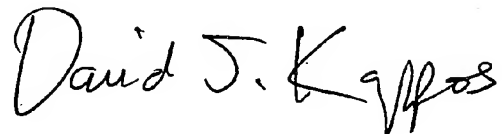
Column 8, Table II, (line 41), “ $\square(\times 10^{-6}/^{\circ}\text{C})$ ” should read -- $a(\times 10^{-6}/^{\circ}\text{C})$ --, and “ $\square(\text{W/mK})$ ” should read -- $k(\text{W/mK})$ --.

Column 10, line 7, “0.7  $\square$ m (Ra)” should read --0.7  $\mu$ m (Ra)--; Table VI, (line 29), “ $\square(\times 10^{-6}/^{\circ}\text{C})$ ” should read -- $a(\times 10^{-6}/^{\circ}\text{C})$ --, and “ $\square(\text{W/mK})$ ” should read -- $k(\text{W/mK})$ --; line 43, “30  $\square$ m” should read --30  $\mu$ m--.

Column 11, Table IX, (line 35), “Ra ( $\square$ m)” should read --Ra ( $\mu$ m)--; line 47 “3  $\square$ m” should read --3  $\mu$ m--.

Signed and Sealed this

Eighth Day of September, 2009



David J. Kappos  
*Director of the United States Patent and Trademark Office*